

Diffusion weighted magnetic resonance imaging : validation, correction and applications

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PROPOSITIONS BELONGING TO THE THESIS

DIFFUSION WEIGHTED MAGNETIC RESONANCE
IMAGING: VALIDATION, CORRECTION AND
APPLICATIONS

Pim Pullens, Maastricht, May 22, 2012.

1. A simple diffusion phantom can help in solving complex issues in diffusion-weighted image acquisition and processing. (this thesis)
2. The influence of fiber orientation-dependent susceptibility changes on diffusion measures should not be underestimated. (this thesis)
3. The problem with language processing in Landau-Kleffner Syndrome is likely to originate from higher order language processing and can be circumvented by the help of the visual system. (this thesis)
4. Even without conscious vision, the brain can interpret visual emotional signals in blindsight patients due to the use of a low-level subcortical white matter circuit comprised of the amygdala, pulvinar and superior colliculus. (this thesis)
5. Researchers new into the DW-MRI field should be made aware of the pitfalls and false positives or negatives when they show nice coloured fiber tracts.
6. The basics of DW-MRI should be understood better before moving on to fancy models.
7. A craftsman will say: "Get the best tools you can afford, and pick the right tool for the job". This is also valid for neuroimaging software.
8. Best experimental equipment for phantom construction can be found at Gamma or Praxis.
9. Science is a good piece of furniture for a man to have in an upper chamber, provided he has common sense on the ground floor.
Oliver Wendell Holmes
10. A thesaurus proves to be almost as valuable as your measurements when writing a paper.
11. Whenever parent and child write a scientific paper together, it is convenient if their initials are different.